

Serial No. 10/743,800

Docket No. YHK-0129

Amdt. dated October 27, 2005

Reply to Office Action of July 27, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of driving a plasma display panel, wherein one frame includes a plurality of selective writing sub-fields and a plurality of selective erasing sub-fields, said method comprising ~~the step of:~~

applying an erasing data pulse only in an address period of any one of the plurality of selective erasing sub-fields so as to turn off a discharge cell wherein if the discharge cell has been turned off at the nth sub-field (wherein n is an integer), then said erasing data pulse is not generated in the address periods of the selective erasing sub-fields arranged after the nth sub-field.

2. (Canceled)

3. (Currently Amended) The method as claimed in claim ~~2~~1, wherein the nth sub-field is a selective erasing sub-field.

4. (Currently Amended) The method as claimed in claim 2 1, wherein the nth sub-field is a selective writing sub-field arranged prior to said selective erasing sub-field.
5. (Original) A method of driving a plasma display panel, wherein one frame includes a plurality of selective writing sub-fields and a plurality of selective erasing sub-fields, and the number of erasing data pulses applied to turn off a specific discharge cell during an interval of the plurality of selective erasing sub-fields is in inverse proportion to the number of selective writing sub-fields turning on the specific discharge cell.
6. (Original) The method as claimed in claim 5, wherein, if said specific discharge cell has been turned on at at least four selective writing sub-fields during said one frame, then a single of erasing data pulse is applied to turn off the specific discharge cell.
7. (Original) The method as claimed in claim 5, wherein, if said specific discharge cell has been turned on at a single of selective writing sub-field during said one frame, then three erasing data pulses are applied to turn off the specific discharge cell.
8. (Original) The method as claimed in claim 7, wherein said erasing data pulse is continuously applied to adjacent selective erasing sub-fields.

9. (Original) The method as claimed in claim 5, wherein, if said specific discharge cell has been turned on at at least two selective writing sub-fields during said one frame, then two erasing data pulses are applied to turn off the specific discharge cell.

10. (Original) The method as claimed in claim 9, wherein said erasing data pulse is continuously applied to adjacent selective erasing sub-fields.

11. (Original) A method of driving a plasma display panel, wherein one frame includes a plurality of selective writing sub-fields and a plurality of selective erasing sub-fields, and the number of erasing data pulses applied to turn off a specific discharge cell during an interval of the plurality of selective erasing sub-fields is in inverse proportion to the number of selective writing sub-fields and selective erasing sub-fields that turn on the specific discharge cell during said one frame interval.

12. (Original) The method as claimed in claim 11, wherein, if said specific discharge cell has been turned on at at least four sub-fields during said one frame, then a single of erasing data pulse is applied to turn off the specific discharge cell.

13. (Original) The method as claimed in claim 11, wherein, if said specific discharge cell has been turned on at a single of sub-field during said one frame, then three erasing data pulses are applied to turn off the specific discharge cell.

14. (Original) The method as claimed in claim 13, wherein said erasing data pulse is continuously applied to adjacent selective erasing sub-fields.

15. (Original) The method as claimed in claim 11, wherein, if said specific discharge cell has been turned on at at least two sub-fields during said one frame, then two erasing data pulses are applied to turn off the specific discharge cell.

16. (Original) The method as claimed in claim 15, wherein said erasing data pulse is continuously applied to adjacent selective erasing sub-fields.

17. (Currently Amended) A method of driving a plasma display panel, wherein one frame includes a plurality of selective writing sub-fields and a plurality of selective erasing sub-fields, said method comprising ~~the step of~~:

applying a writing data pulse during an address period of said selective writing sub-field to thereby select a specific discharge cell into an on-cell; and

applying an erasing data pulse during an address period of at least one selective erasing sub-field of the plurality of selective erasing sub-fields to thereby turn off the specific discharge cell,

wherein the number of said erasing data pulses applied to the specific discharge cell is set to be differentiated depending upon a peripheral temperature at which the panel is driven.

18. (Original) The method as claimed in claim 17, wherein, when the panel is driven at a high temperature, i erasing data pulses (wherein i is an integer) are applied to the specific discharge cell.

19. (Original) The method as claimed in claim 18, wherein said high temperature is more than 40°C.

20. (Original) The method as claimed in claim 18, wherein, when the panel is driven at a low temperature, j erasing data pulses (j is an integer than larger than i) are applied to the specific discharge cell.

21. (Original) The method as claimed in claim 18, wherein said low temperature is less than 0°C.

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22. (Original) The method as claimed in claim 20, wherein, when the panel is driven at a temperature between said high temperature and said low temperature, erasing data pulses having the number larger than i and smaller than j are applied to the specific discharge cell.